

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-6. (Canceled)

7. (Currently Amended) An artificial vision system comprising:

an external device adapted to be disposed outside a body of a patient, the external device including:

an image pickup device which is to be disposed outside a body of a patient and captures an image in front of the patient; and

an image processing device which generates a signal for stimulation pulse by processing the image captured by the image pickup device; and

an internal device adapted to be implanted in the body, the internal device including:

a receiving device which receives the signal for stimulation pulse and converts it into an electrical stimulation pulse signal, the receiving device being adapted to be implanted under a skin of a temporal part of the patient in a position away from an eye of the patient;

a plurality of separate electrodes which are to be implanted in an eye of the patient so as to individually stick in an optic papilla of the patient's electrodes each of which outputs the electrical stimulation pulse signal, has a needle-shaped end and is adapted to be implanted in the eye so as to stick in a bundle of nerve fibers of an optic papilla of the eye, each electrode having a predetermined length so that its end is placed for placing its end in an optic nerve of the eye when the electrode is stuck in the optic papilla; and

a plurality of signal wires which individually connects each electrode and the receiving device, the signal wires being bundled for inserting parts of the signal wires

close to the electrodes into the eye through a hole formed in a sclera of the eye and being adapted to be fixed in the eye,

wherein the electrodes after being stuck in the optic papilla outputs ~~an electric~~ the electric stimulation pulse signal based on ~~a signal~~ the signal for stimulation pulse which is generated based on the image captured by the image pickup device to stimulate the optic ~~nerve of the eye, nerve,~~ thereby enabling the patient to visually recognize the image captured by the image pickup device.

8-12. (Canceled)